

## PE/Dazzle™ 594 anti-human CD69 Antibody

<b>Catalog# / Size</b>	310941 / 25 tests 310942 / 100 tests
<b>Clone</b>	FN50
<b>Workshop</b>	IV A91
<b>Other Names</b>	Very Early Activation Antigen (VEA), Activation inducer molecule (AIM)
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD69 is a 27-33 kD type II transmembrane protein also known as activation inducer molecule (AIM), very early activation antigen (VEA), and MLR3. It is a member of the C-type lectin family, expressed as a disulfide-linked homodimer. Other members of this receptor family include NKG2, NKR-P1 CD94, and Ly49. CD69 is transiently expressed on activated leukocytes including T cells, thymocytes, B cells, NK cells, neutrophils, and eosinophils. CD69 is constitutively expressed by a subset of medullary mature thymocytes, platelets, mantle B cells, and certain CD4 <sup>+</sup> T cells in germinal centers of normal lymph nodes. CD69 is involved in early events of lymphocyte, monocyte, and platelet activation, and has a functional role in redirected lysis mediated by activated NK cells.

### Product Details

<b>Reactivity</b>	Human, African Green, Baboon, Chimpanzee, Cynomolgus, Pigtailed Macaque, Rhesus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.
<b>Concentration</b>	Lot-specific (please contact <a href="#">technical support</a> for concentration and total µg amount, or use our <a href="#">Lookup tool</a> if you have a lot number.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	FC - Quality tested
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.  * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections <sup>2</sup> and immunofluorescence microscopy <sup>3</sup> .
<b>Application References</b>	<ol style="list-style-type: none"> <li>Knapp WB, et al. 1989. Leucocyte Typing IV. Oxford University Press. New York.</li> <li>Sakkas LI, et al. 1998. Clin. and Diag. Lab. Immunol. 5:430. (IHC)</li> <li>Kim JR, et al. 2005. BMC Immunol. 6:3. (IF)</li> <li>Verjans GM, et al. 2007. P. Natl. Acad. Sci. USA 104:3496.</li> <li>Lu H, et al. 2009. Toxicol Sci. 112:363. (FC) PubMed</li> <li>Thakral D, et al. 2008. J. Immunol. 180:7431. (FC) PubMed</li> <li>Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)</li> </ol>
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>Stegmann K, et al. 2016. Sci Rep. 6: 26157. PubMed</li> <li>Lubaki N, et al. 2016. PLoS Pathog. 12:e1006031. PubMed</li> <li>Swadling L, et al. 2020. Cell Rep. 30:687. PubMed</li> </ol>
<b>RRID</b>	AB_2564276 (BioLegend Cat. No. 310941) AB_2564277 (BioLegend Cat. No. 310942)

## Antigen Details

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<b>Structure</b>	C-type lectin, type II glycoprotein, 28/32 kD
<b>Distribution</b>	Activated T cells, B cells, NK cells, granulocytes, thymocytes, platelets, Langerhans cells
<b>Function</b>	Lymphocyte, monocyte, and platelet activation, NK cell killing
<b>Cell Type</b>	B cells, Granulocytes, Langerhans cells, NK cells, Platelets, T cells, Thymocytes, Tregs
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. 2. Testi R, et al. 1994. Immunol. Today 15:479.
<b>Gene ID</b>	969

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

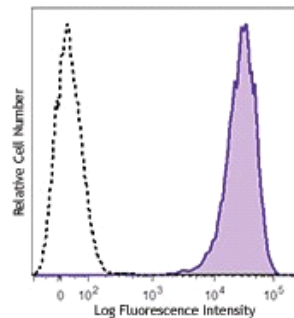
## Other Formats

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Purified anti-human CD69, FITC anti-human CD69, PE anti-human CD69, PE/Cyanine5 anti-human CD69, APC anti-human CD69, APC/Cyanine7 anti-human CD69, PE/Cyanine7 anti-human CD69, Alexa Fluor® 488 anti-human CD69, Alexa Fluor® 647 anti-human CD69, Pacific Blue™ anti-human CD69, Alexa Fluor® 700 anti-human CD69, Biotin anti-human CD69, PerCP/Cyanine5.5 anti-human CD69, PerCP anti-human CD69, Brilliant Violet 421™ anti-human CD69, Brilliant Violet 785™ anti-human CD69, Brilliant Violet 650™ anti-human CD69, Brilliant Violet 510™ anti-human CD69, Brilliant Violet 605™ anti-human CD69, Purified anti-human CD69 (Maxpar® Ready), Brilliant Violet 711™ anti-human CD69, APC/Fire™ 750 anti-human CD69, TotalSeq™-A0146 anti-human CD69, TotalSeq™-B0146 anti-human CD69, TotalSeq™-C0146 anti-human CD69, Brilliant Violet 750™ anti-human CD69, KIRAVIA Blue 520™ anti-human CD69

## Product Data

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PMA + ionomycin-stimulated (6 hours) human peripheral blood lymphocytes were stained with CD69 (clone FN50) PE/Dazzle™ 594 (filled histogram) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (open histogram).

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